

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A tree stump grinding tooth adapted for use in a tree stump grinding wheel having a rotor, the tooth comprising:

a main body ~~including a slot comprising two substantially planar surfaces for, in use, engaging with a slot in the rotor~~ disposed so as to face in generally opposite directions;

at least one cutting face connected to and extending away from the main body;

~~wherein, in use, the force in the plane of the rotor is transferred onto the rotor via one of the planar surfaces provided on the slot; and~~

wherein the cutting face includes at least two cutting tips which are oriented generally perpendicular to each other such that they cut in orthogonal directions simultaneously when said tooth is rotated about an axis spaced from said tooth.

2. (Currently amended) A tooth according to claim 1, wherein the main body comprises a back face further comprising a channel therein in its back face.

3. (Currently amended) A tooth according to claim 1, ~~further comprising a~~ wherein said main body further comprises an alignment through hole for alignment with one of a plurality of through holes in the rotor when the tooth is located in one of the slots in the rotor.

4. (Currently amended) A tree stump grinding unit adapted for use with a tree stump grinding machine, the unit comprising:

a rotor having a rim around which a plurality of slots are provided;

a plurality of teeth, each tooth disposed partially in a corresponding slot in said rotor and comprising:

a main body ~~including a slot~~ comprising two substantially planar surfaces
~~engaged with a respective slot in the rotor,~~ disposed so as to face in generally opposite
directions;

at least one cutting face connected to and extending away from the main body;

~~wherein, in use, the~~ wherein a force applied to the tooth in the plane of the rotor
is transferred ~~onto~~ from the tooth to the rotor via one of the planar surfaces ~~provided on~~
~~the slot;~~ and

wherein the cutting face includes at least two tips which are perpendicular to
each other; and

fixing means for retaining each tooth in a corresponding ~~its associated~~ slot in the rotor.

5. (Original) A grinding unit according to claim 4, wherein the radius of the rotor varies
around the circumference.

6. (Currently amended) ~~A grinding unit according to claim 4, wherein the rotor is~~ A tree
stump grinding unit adapted for use with a tree stump grinding machine, the unit comprising:

a polygonal rotor having a rim around which a plurality of slots are provided;

a plurality of teeth, each tooth comprising:

a main body including a slot comprising two substantially planar surfaces
engaged with a respective slot in the rotor,

at least one cutting face connected to and extending away from the main body;

wherein a force applied to the tooth in the plane of the rotor is transferred from
the tooth to the rotor via one of the planar surfaces; and

wherein the cutting face includes at least two tips which are perpendicular to
each other; and

fixing means for retaining each tooth in a corresponding slot in the rotor.

7. (Original) A grinding unit according to claim 6, wherein the polygon shape is irregular.
8. (Previously presented) A grinding unit according to claim 6, wherein the rotor has an even number of sides.
9. (Previously presented) A grinding unit according to claim 6, wherein each slot is provided at a corner of the polygon.
10. (Original) A grinding unit according to claim 8, wherein the slots are arranged in diametrically opposed pairs.
11. (Original) A grinding unit according to claim 10, wherein the slots in an opposing pair of slots are the same distance from the axis.
12. (Previously presented) A grinding unit according to claim 8, wherein the number of slots is 4, 6, 8, 10 or 12.
13. (Previously presented) A grinding unit according to any one of claims 4 to 12, wherein at least one slot is angled towards the axis of rotation of the rotor.
14. (Original) A grinding unit according to any one of claims 4 to 12, wherein at least one slot is angled away from the axis of rotation of the rotor.

15. (Previously presented) A grinding unit according to claim 12, wherein the slots are arranged in two diametrically opposed series, each successive slot in each series having an increased distance from the axis in the direction in which the rotor rotates, in use.
16. (Previously presented) A grinding unit according to claim 4, wherein the rotor further comprises a plurality of through holes corresponding in number with the number of slots in the rotor, and each tooth further comprises a corresponding through hole in alignment with a respective through hole in the rotor when the tooth is located in the respective slot on the rotor, and wherein the fixing means is a nut and bolt, the bolt passing through the aligned through holes in the rotor and the respective tooth.
17. (New) The tooth of claim 1 wherein said main body further comprises a slot disposed distally from said cutting face.
18. (New) The tooth of claim 1 wherein said substantially planar surfaces are disposed generally parallel to said cutting face.